

What is claimed is:

1 / 1. A system module to couple a switch fabric network to input/output (I/O)
2 resources, said system module comprising:

3 a first serverlet;

4 a second serverlet; and

5 a first switching device to couple to each of said first serverlet and said second
6 serverlet and to said I/O resources such that said first serverlet and said second serverlet
7 share said I/O resources.

1 2. The system module of claim 1, wherein said I/O resources comprise a first
2 disk system and a second disk system.

1 3. The system module of claim 1, wherein the first serverlet comprises first
2 memory devices, a first processing unit, a first power conversion unit and a first interfacing
3 unit to couple said first processing unit to said first memory devices.

1 4. The system module of claim 3, wherein the second serverlet comprises
2 second memory devices, a second processing unit, a second power conversion unit and a
3 second interfacing unit to couple said second processing unit to said second memory
4 devices.

1 5. The system module of claim 1, wherein the switch fabric network comprises
2 one of an Infiniband network, an Ethernet network and a Fibrechannel network.

1 6. The system module of claim 1, further comprising a data bus to couple said
2 first serverlet to said first switching device and to couple said second serverlet to said first
3 switching device.

1 7. The system module of claim 1, further comprising a data bus, a second
2 switching device to couple to said switch fabric network, and a third switching device to
3 couple to said switch fabric network, said data bus to couple said first serverlet to said first
4 and second switching devices and to couple said second serverlet to said first and second
5 switching devices.

1 8. The system module of claim 7, wherein said second switching device
2 comprises a first conversion unit to couple to said data bus, a second conversion unit to
3 couple to said data bus, and a third switching device to couple to said switch fabric network
4 and to each of said first conversion unit and said second conversion unit.

1 9. The system module of claim 1, wherein said first switching device
2 comprises:

3 a first interface device to couple to said first serverlet;
4 a second interface device to couple to said second serverlet;
5 a second switching device to couple to said first interface device and said second
6 interface device; and
7 a controller device to couple to said second switching device and to a data bus that
8 is coupled to said I/O resources.

10. The system module of claim 9, further comprising a third interface device to
couple between said controller device and said data bus.

11. A module comprising:
a plurality of serverlets; and
a first switching device to couple to input/output (I/O) resources and to couple to
said plurality of serverlets such that said plurality of serverlets share said I/O
resources.

12. The module of claim 11, wherein said I/O resources comprise a first disk
system and a second disk system.

1 13. The module of claim 11, wherein each of said plurality of serverlets
2 separately comprise memory devices, a processing unit, a power conversion unit and an
3 interfacing unit to couple said processing unit to said memory devices.

1 14. The module of claim 11, wherein said module is coupled to a switch fabric
2 network, said switch fabric network comprising one of an Infiniband network, an Ethernet
3 network and a Fibrechannel network.

1 15. The module of claim 11, further comprising a data bus to couple said
2 plurality of serverlets to said first switching device.

1 16. The module of claim 11, further comprising a data bus, a second switching
2 device to couple to a switch fabric network and a third switching device to couple to said
3 switch fabric network, said data bus to couple said plurality of serverlets to said first and
4 second switching devices.

1 17. The module of claim 16, wherein said second switching device comprises a
2 first conversion unit to couple to said data bus, a second conversion unit to couple to said
3 data bus, and a third switching device to couple to said switch fabric network and to each
4 of said first conversion unit and said second conversion unit.

1 18. The module of claim 11, wherein said first switching device comprises:
2 a first interface device to couple to a first one of said plurality of serverlets;
3 a second interface device to couple to a second one of said plurality of serverlets;
4 a second switching device to couple to said first interface device and said second
5 interface device; and
6 a controller device to couple to said second switching device and to a data bus that
7 is coupled to said I/O resources.

1 19. The module of claim 18, further comprising a third interface device to
2 couple between said controller device and said data bus.

1 / 20. A system comprising:
2 a switch fabric network;
3 input/output (I/O) resources; and
4 a module to couple said switch fabric network to said I/O resources, said module
5 comprising:
6 a first serverlet;
7 a second serverlet; and
8 a first switching device to couple to each of said first serverlet and said
9 second serverlet and to said I/O resources such that said first serverlet and said second
10 serverlet share said I/O resources.

1 21. The system of claim 20, wherein said I/O resources comprise a first disk system
2 and a second disk system.

1 22. The system of claim 20, wherein the switch fabric network comprises one of an
2 Infiniband network, an Ethernet network and a Fibrechannel network.

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1 23. The system of claim 20, further comprising a data bus, a second switching
2 device to couple to said switch fabric network, and a third switching device to couple to said
3 switch fabric network, said data bus to couple said first serverlet to said first and second
4 switching devices and to couple said second serverlet to said first and second switching
5 devices.

1 24. The system of claim 23, wherein said second switching device comprises a first
2 conversion unit to couple to said data bus, a second conversion unit to couple to said data bus,
3 and a third switching device to couple to said switch fabric network and to each of said first
4 conversion unit and said second conversion unit.